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Terms	Documents
hex adj ii near5 (promoter or promotor or regulatory adj sequence)	1

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L1 hex adj ii near5 (promoter or promotor or regulatory adj sequence)1 L1

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-
- ☐ 1. 20010011128. 19 Dec 00. 02 Aug 01. Hex II tumor-specific promoter and uses thereof. Batist, Gerald, et al. 536/23.1; 424/93.21 435/320.1 435/455 A61K048/00 A01N063/00.
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Terms	Documents
hex adj ii near5 (promoter or promotor or regulatory adj sequence)	1

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=> d his

(FILE 'HOME' ENTERED AT 14:13:24 ON 09 DEC 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 14:13:38 ON 09 DEC 2002

L1 0 S HEX(W)II(5A) (PROMOTER OR PROMOTER OR REGULATORY(W) (SEQUENCE O
L2 2 S HEX(W)II(5A) (PROMOTER OR PROMOTER OR REGULATORY(W) (SEQUENCE)
L3 46 S HEX(5A) (PROMOTER OR PROMOTER OR REGULATORY(W) (SEQUENCE)
L4 2 DUP REM L2 (0 DUPLICATES REMOVED)
L5 23 DUP REM L3 (23 DUPLICATES REMOVED)

=> d bib ab 1-2 14

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 2001:566674 CAPLUS

DN 135:142216

TI **Hex II** tumor-specific promoter and uses thereof

IN Batist, Gerald; Katabi, Maha

PA Can.

SO U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Ser. No. 276,005.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2001011128	A1	20010802	US 2000-739223	20001219
WO 9813507	A1	19980402	WO 1997-CA691	19970922
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			

PRAI US 1996-26678P P 19960925

WO 1997-CA691 A1 19970922

US 1999-276005 A2 19990325

AB The present invention relates to a tumor-specific promoter for use in gene targeted therapy that is selectively activated in cancer cells, which comprises a **Hex II promoter**. The present invention also relates to a gene construct, which include a **Hex II promoter** in a vector selected from a basic expression vector, a shuttle plasmid, an adenovirus type 5 recombinant vector and a lipid-based delivery system.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1998:210872 CAPLUS

DN 128:266956

TI **Hex II** tumor-specific promoter and its use in gene-targeted cancer therapy

IN Batist, Gerald; Katabi, Maha

PA McGill University, Can.; Batist, Gerald; Katabi, Maha

SO PCT Int. Appl., 20 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9813507 A1 19980402 WO 1997-CA691 19970922
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CP, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
AU 9742927 A1 19980417 AU 1997-42927 19970922
EP 954590 A1 19991110 EP 1997-918865 19970922
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
US 2001011128 A1 20010802 US 2000-739223 20001219
PRAI US 1996-26678P P 19960925
WO 1997-CA691 W 19970922
US 1999-276005 A2 19990325
AB The present invention relates to a tumor-specific **promoter**, the **Hex II promoter**, for use in gene targeted therapy that is differentially regulated in cancer cells. The present invention also relates to a gene construct, which includes the **Hex II promoter** in a vector selected from pCAT basic expression vector p.DELTA.ElsplB, called pHexII4557-CAT, and a shuttle plasmid which includes either .beta.-gal or HSV Tk, called p.DELTA.ElsplBHex-LacZ and p.DELTA.ElsplBHex-TK.

=> d 1-23 au ti so l5

L5 ANSWER 1 OF 23 MEDLINE DUPLICATE 1
AU Zhang Wenjun; Yatskievych Tatiana A; Cao Xu; Antin Parker B
TI Regulation of Hex Gene Expression by a Smads-dependent Signaling Pathway.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Nov 22) 277 (47) 45435-41.
Journal code: 2985121R. ISSN: 0021-9258.
L5 ANSWER 2 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Antin, Parker B. (1); Zhang, Wenjun (1); Yatskievych, Tatiana A.; Bales, Mark A. (1); Baker, Robert K. (1)
TI Co regulation of heart and liver development by BMP signaling.
SO FASEB Journal, (March 22, 2002) Vol. 16, No. 5, pp. A1093-A1094.
http://www.fasebj.org/. print.
Meeting Info.: Annual Meeting of Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002
ISSN: 0892-6638.
L5 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Batist, Gerald; Katabi, Maha
TI **Hex II** tumor-specific **promoter** and uses thereof
SO U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Ser. No. 276,005.
CODEN: USXXCO
L5 ANSWER 4 OF 23 MEDLINE DUPLICATE 2
AU Schaefer L K; Wang S; Schaefer T S
TI Functional interaction of Jun and homeodomain proteins.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2001 Nov 16) 276 (46) 43074-82.
Journal code: 2985121R. ISSN: 0021-9258.
L5 ANSWER 5 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Antin, Parker B. (1); Zhang, Wenjun (1); Yatskievych, Tania A. (1); Bales, Mark A. (1)
TI Regulation of BMP-2 and Hex gene expression in anterior lateral (cardiogenic) endoderm.
SO FASEB Journal, (March 7, 2001) Vol. 15, No. 4, pp. A376. print.
Meeting Info.: Annual Meeting of the Federation of American Societies for

Experimental Biology on Experimental Biology 2001 Orlando, Florida, USA
March 31-April 04, 2001
ISSN: 0892-6638.

- L5 ANSWER 6 OF 23 SCISEARCH COPYRIGHT 2002 ISI (R)
AU Oyama Y (Reprint); Sekiguchi K; Ohyama Y; Okamoto E; Kowase K K;
Kurabayashi M
TI Homeobox protein, **Hex**, activates the SM22 alpha **promoter**
through recruiting the SRF to its binding site in murine embryonic
fibroblasts
SO CIRCULATION, (23 OCT 2001) Vol. 104, No. 17, Supp. [S], pp. 89-89. MA 427.
Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA
19106-3621 USA.
ISSN: 0009-7322.
- L5 ANSWER 7 OF 23 MEDLINE DUPLICATE 3
AU Nagai R; Suzuki T; Aizawa K; Miyamoto S; Amaki T; Kawai-Kowase K;
Sekiguchi K I; Kurabayashi M
TI Phenotypic modulation of vascular smooth muscle cells: dissection of
transcriptional regulatory mechanisms.
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (2001 Dec) 947 56-66;
discussion 66-7.
Journal code: 7506858. ISSN: 0077-8923.
- L5 ANSWER 8 OF 23 MEDLINE DUPLICATE 4
AU Sekiguchi K; Kurabayashi M; Oyama Y; Aihara Y; Tanaka T; Sakamoto H;
Hoshino Y; Kanda T; Yokoyama T; Shimomura Y; Iijima H; Ohyama Y; Nagai R
TI Homeobox protein Hex induces SMemb/nonmuscle myosin heavy chain-B gene
expression through the cAMP-responsive element.
SO CIRCULATION RESEARCH, (2001 Jan 19) 88 (1) 52-8.
Journal code: 0047103. ISSN: 1524-4571.
- L5 ANSWER 9 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Oyama, Yuko (1); Sekiguchi, Kenichi (1); Ohyama, Yoshio (1); Okamoto,
Eichi (1); Kowase, Keiko Kawai (1); Kurabayashi, Masahiko (1)
TI Homeobox protein, **Hex**, activates the SM22alpha **promoter**
through recruiting the SRF to its binding site in murine embryonic
fibroblasts.
SO Circulation, (October 2, 2001) Vol. 104, No. 17 Supplement, pp. II-89.
<http://circ.ahajournals.org/>. print.
Meeting Info.: Scientific Sessions 2001 of the American Heart Association
Anaheim, California, USA November 11-14, 2001
ISSN: 0009-7322.
- L5 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Pellizzari, Lucia; D'Elia, Angela; Rustighi, Alessandra; Manfioletti,
Guidalberto; Tell, Gianluca; Damante, Giuseppe
TI Expression and function of the homeodomain-containing protein Hex in
thyroid cells
SO Nucleic Acids Research (2000), 28(13), 2503-2511
CODEN: NARHAD; ISSN: 0305-1048
- L5 ANSWER 11 OF 23 MEDLINE DUPLICATE 5
AU Denson L A; Karpen S J; Bogue C W; Jacobs H C
TI Divergent homeobox gene **hex** regulates **promoter** of the
Na(4)-dependent bile acid cotransporter.
SO AMERICAN JOURNAL OF PHYSIOLOGY. GASTROINTESTINAL AND LIVER PHYSIOLOGY,
(2000 Aug) 279 (2) G347-55.
Journal code: 100901227. ISSN: 0193-1857.
- L5 ANSWER 12 OF 23 MEDLINE DUPLICATE 6
AU Denson L A; McClure M H; Bogue C W; Karpen S J; Jacobs H C
TI HNF3beta and GATA-4 transactivate the liver-enriched homeobox gene, Hex.
SO GENE, (2000 Apr 4) 246 (1-2) 311-20.

Journal code: 7706761. ISSN: 0378-1119.

- L5 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2002 ACS
AU Ito, Takuya; Nakayama, Takuya; Meshi, Tetsuo; Iwabuchi, Masaki
TI Hex-motif-specific binding protein HBP-1b(c38) can activate transcription
without interacting with a target DNA sequence
SO Plant Biotechnology (Tokyo) (2000), 17(4), 297-303
CODEN: PLBIF6; ISSN: 1342-4580
- L5 ANSWER 14 OF 23 MEDLINE DUPLICATE 7
AU Myint Z; Inazu T; Tanaka T; Yamada K; Keng V W; Inoue Y; Kuriyama M;
Noguchi T
TI Genomic organization and promoter analysis of a mouse homeobox gene, Hex.
SO JOURNAL OF BIOCHEMISTRY, (1999 Apr) 125 (4) 795-802.
Journal code: 0376600. ISSN: 0021-924X.
- L5 ANSWER 15 OF 23 SCISEARCH COPYRIGHT 2002 ISI (R)
AU Inoue H; Umesono K; Nishimori T; Hirata Y; Tanabe T (Reprint)
TI Glucocorticoid-mediated suppression of the promoter activity of the
cyclooxygenase-2 gene is modulated by expression of its receptor in
vascular endothelial cells
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (19 JAN 1999) Vol.
254, No. 2, pp. 292-298.
Publisher: ACADEMIC PRESS INC, 525 B ST, STE 1900, SAN DIEGO, CA
92101-4495.
ISSN: 0006-291X.
- L5 ANSWER 16 OF 23 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AU Denson, Lee A. (1); Ghosh, Bidyet (1); McClure, Mitchell H. (1); Bogue,
Clifford W. (1); Karpen, Saul J. (1); Jacobs, Harris C. (1)
TI Multiple factors regulate the promoter region of the liver-enriched orphan
homeobox protein, Hex.
SO Pediatric Research, (April, 1999) Vol. 45, No. 4 PART 2, pp. 110A.
Meeting Info.: Annual Meeting of the American Pediatric Society and the
Society for Pediatric Research San Francisco, California, USA May 1-4,
1999
ISSN: 0031-3998.
- L5 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Barredo Fuente, Jose Luis; Rodriguez Saiz, Marta; Moreno Valle, Miguel
Angel; Collados De La Vieja, Alfonso J.; Salto Maldonado, Francisco; Diez
Garcia, Bruno
TI Fungal gdh, hex and act genes and use of their promoters for control of
gene expression in recombinant organisms
SO PCT Int. Appl., 84 pp.
CODEN: PIXXD2
- L5 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2002 ACS
IN Batist, Gerald; Katabi, Maha
TI Hex II tumor-specific promoter and its use in
gene-targeted cancer therapy
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
- L5 ANSWER 19 OF 23 MEDLINE DUPLICATE 8
AU Thiar R; Loubser O; de Villiers J N; Santos M; Kotze M J
TI Novel stop mutation causing familial hypercholesterolemia in a Costa Rican
family.
SO MOLECULAR AND CELLULAR PROBES, (1997 Dec) 11 (6) 457-8.
Journal code: 8709751. ISSN: 0890-8508.
- L5 ANSWER 20 OF 23 SCISEARCH COPYRIGHT 2002 ISI (R)
AU UCHIDA T (Reprint); TAKAHASHI K; TATSUNO K; DHINGRA U; ELIASON J F
TI INHIBITION OF HEPATITIS-B-VIRUS CORE PROMOTER BY P53 - IMPLICATIONS FOR

SO CARCINOGENESIS IN HEPATOCYTES
 INTERNATIONAL JOURNAL OF CANCER, (17 SEP 1996) Vol. 67, No. 6, pp.
 892-897.
 ISSN: 0020-7136.

L5 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AU Liu, Zhan-Bin; Ulmasov, Tim; Shi, Xiangyang; Hagen, Gretchen; Guilfoyle,
 Tom J.
 TI Soybean GH3 promoter contains multiple auxin-inducible elements
 SO Plant Cell (1994), 6(5), 645-57
 CODEN: PLCEEW; ISSN: 1040-4651

L5 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 9
 AU Lam, Eric; Chua, Nam Hai
 TI Tetramer of a 21-base pair synthetic element confers seed expression and
 transcriptional enhancement in response to water stress and abscisic acid
 SO Journal of Biological Chemistry (1991), 266(26), 17131-5
 CODEN: JBCHA3; ISSN: 0021-9258

L5 ANSWER 23 OF 23 MEDLINE DUPLICATE 10
 AU Lam E; Katagiri F; Chua N H
 TI Plant nuclear factor ASF-1 binds to an essential region of the nopaline
 synthase promoter.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Jun 15) 265 (17) 9909-13.
 Journal code: 2985121R. ISSN: 0021-9258.

=> d bib ab 17-23 15

L5 ANSWER 17 OF 23 CAPLUS COPYRIGHT 2002 ACS
 AN 1998:612202 CAPLUS
 DN 129:212496
 TI Fungal gdh, hex and act genes and use of their promoters for control of
 gene expression in recombinant organisms
 IN Barredo Fuente, Jose Luis; Rodriguez Saiz, Marta; Moreno Valle, Miguel
 Angel; Collados De La Vieja, Alfonso J.; Salto Maldonado, Francisco; Diez
 Garcia, Bruno
 PA Antibioticos, S.A.U., Spain
 SO PCT Int. Appl., 84 pp.
 CODEN: PIXXD2
 DT Patent
 LA Spanish
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9839459	A1	19980911	WO 1998-ES56	19980305
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ES 2127697	A1	19990416	ES 1997-482	19970305
ES 2127697	B1	20000316		
CA 2253250	AA	19980911	CA 1998-2253250	19980305
ZA 9801896	A	19980914	ZA 1998-1896	19980305
AU 9861011	A1	19980922	AU 1998-61011	19980305
CN 1219200	A	19990609	CN 1998-800237	19980305
JP 2000509613	T2	20000802	JP 1998-538200	19980305
ES 2149706	A1	20001101	ES 1998-1858	19980903
ES 2149706	B1	20010516		
ES 2149707	A1	20001101	ES 1998-1859	19980903

ES 2149707	B1	20010516		
LT 4557	B	19991025	LT 1998-152	19981023
LV 12264	B	19991020	LV 1998-268	19981105
US 6300095	B1	20011009	US 1999-171337	19990514
PRAI ES 1997-482	A	19970305		
WO 1998-ES56	W	19980305		

AB The invention relates to promoters of the genes glutamate dehydrogenase, .beta.-acetylhexosaminidase and .gamma.-actin and their use in systems of expression, secretion and anti-sense of filamentous fungi. The invention also relates to the use of the promoters of the genes which code: (I) NADP-dependent glutamate dehydrogenase (EC.1.4.1.4) of Penicillium chrysogenum, (II) .gamma.-N-acetylhexosaminidase (EC.3.2.1.52) of P. chrysogenum and (III) .gamma.-actin of P. chrysogenum and Acremonium chrysogenum, which can be used for the construction of potent vectors of expression and secretion useful both for P. chrysogenum and for A. chrysogenum and related species. Said promoters can also be used for blocking gene expression through antisense construction. Under the control of the above-mentioned promoters, it is possible to control the expression of other genes in filamentous fungi, thereby increasing the prodn. of antibiotics and/or proteins inherent to the same. Thus, the gdh, hex and act genes of P. chrysogenum and the act gene of A. chrysogenum were cloned and sequenced. A chimeric Pgdh-antisense pahA gene was expressed in P. chrysogenum. Phenylacetate 2-hydroxylase activity was reduced in these transformants.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2002 ACS
AN 1998:210872 CAPLUS
DN 128:266956
TI Hex II tumor-specific promoter and its use in
gene-targeted cancer therapy
IN Batist, Gerald; Katabi, Maha
PA McGill University, Can.; Batist, Gerald; Katabi, Maha
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9813507	A1	19980402	WO 1997-CA691	19970922
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9742927	A1	19980417	AU 1997-42927	19970922
EP 954590	A1	19991110	EP 1997-918865	19970922
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
US 2001011128	A1	20010802	US 2000-739223	20001219
PRAI US 1996-26678P	P	19960925		
WO 1997-CA691	W	19970922		
US 1999-276005	A2	19990325		

AB The present invention relates to a tumor-specific promoter, the Hex II promoter, for use in gene targeted therapy that is differentially regulated in cancer cells. The present invention also relates to a gene construct, which includes the Hex II promoter in a vector selected from pCAT basic expression vector p.DELTA.ElsplB, called pHexII4557-CAT, and a shuttle plasmid which

includes either .beta.-gal or HSV Tk, called p.DELTA.Elsp1BHex-LacZ and p.DELTA.Elsp1BHex-TK.

L5 ANSWER 19 OF 23 MEDLINE DUPLICATE 8
AN 1998164118 MEDLINE
DN 98164118 PubMed ID: 9500809
TI Novel stop mutation causing familial hypercholesterolemia in a Costa Rican family.
AU Thiair R; Loubser O; de Villiers J N; Santos M; Kotze M J
CS Department of Human Genetics, Faculty of Medicine, University of Stellenbosch, Tygerberg, South Africa.
SO MOLECULAR AND CELLULAR PROBES, (1997 Dec) 11 (6) 457-8.
Journal code: 8709751. ISSN: 0890-8508.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199805
ED Entered STN: 19980514
Last Updated on STN: 19980514
Entered Medline: 19980507
AB Combined heteroduplex single-strand conformation polymorphism (HEX -SSCP) analysis of the promoter and coding region of the low density lipoprotein receptor (LDLR) gene revealed a novel C to T mutation at nucleotide position 2056 in a Costa Rican patient with heterozygous familial hypercholesterolemia (FH). This nonsense mutation, Q665X, results in a termination codon in the epidermal growth factor (EGF) precursor homology domain of the mature LDLR.

L5 ANSWER 20 OF 23 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 96:732307 SCISEARCH
GA The Genuine Article (R) Number: VK490
TI INHIBITION OF HEPATITIS-B-VIRUS CORE PROMOTOR BY P53 - IMPLICATIONS FOR CARCINOGENESIS IN HEPATOCYTES
AU UCHIDA T (Reprint); TAKAHASHI K; TATSUNO K; DHINGRA U; ELIASON J F
CS NIPPON ROCHE RES CTR, BIOINFORMAT GRP, DEPT ONCOL, 200 KAJIWARA, KAMAKURA, KANAGAWA 247, JAPAN (Reprint); HOFFMANN LA ROCHE INC, NUTLEY, NJ, 07110; BARBARA ANN KARMANOS CANC INST, DETROIT, MI, 00000
CYA JAPAN; USA
SO INTERNATIONAL JOURNAL OF CANCER, (17 SEP 1996) Vol. 67, No. 6, pp. 892-897.
ISSN: 0020-7136.
DT Article; Journal
FS LIFE
LA ENGLISH
REC Reference Count: 30
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
AB The incidence of hepatocellular carcinoma (HCC) is particularly high in regions of Asia and sub-Saharan Africa where rates of infection with human hepatitis-B virus (HBV) and aflatoxin-B1 contamination of food are high. In HCC tumors occurring in inhabitants of these regions, a G-to-T mutation frequently occurs at position 249 of the tumor-suppressor gene p53. This suggests that HBV and p53 mutation may collaborate in the carcinogenic process in liver. We have examined the effect of the HBV protein HEX in HCC lines with exogenous wild-type p53 or mutated p53 an transactivation of 2 different reporter genes. Transfection of HCC lines with wild-type p53 and a reporter with the promoter from the p53-responsive gene WAF1/p21 resulted in a high level of expression, as expected. When cells were co-transfected with a reporter gene driven by the HBV core promoter and with the HEX gene, expression was enhanced in the Hep 3B, HLE, PLC/PRF/5 and HuH 7 lines, but not in the HUH 1 line. Co-transfection of the reporter with a plasmid containing wild-type p53 resulted in significant inhibition of the HBV core promoter in all of the lines, whereas the mutated p53 gene had no effect. Our results indicate

that wild-type p53 can inhibit transcription from the HBV core promoter. In similar experiments, both HEX and p53 were co-transfected into HCC lines with the WAF1/p21 reporter gene. HEX inhibited p53-induced expression in 4 of the 6 lines (Hep 3B, HuH 1, HuH7 and HLE), there was no effect in one line (HLF), and enhancement was evident in PLC/PRF/5. Our results indicate that inhibition of p53 transcriptional activity by HEX does occur in HCC, but is highly cell-context-dependent. Inhibition of transcription from the HBV core promoter by wild-type p53 appears to be more universal, and may represent a mechanism by which wild-type p53 can protect against the carcinogenic process in liver.

L5 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2002 ACS
AN 1994:694273 CAPLUS

DN 121:294273

TI Soybean GH3 promoter contains multiple auxin-inducible elements

AU Liu, Zhan-Bin; Ulmasov, Tim; Shi, Xiangyang; Hagen, Gretchen; Guilfoyle, Tom J.

CS Dep. Biochem., Univ. Missouri, Columbia, MO, 65211, USA

SO Plant Cell (1994), 6(5), 645-57

CODEN: PLCEEW; ISSN: 1040-4651

DT Journal

LA English

AB The soybean GH3 gene is transcriptionally induced in a wide variety of tissues and organs within minutes after auxin application. To det. the sequence elements that confer auxin inducibility to the GH3 promoter, we used gel mobility shift assays, methylation interference, deletion anal., linker scanning, site-directed mutagenesis, and gain-of-function anal. with a minimal cauliflower mosaic virus 35S promoter. We identified at least three sequence elements within the GH3 promoter that are auxin inducible and can function independently of one another. Two of these elements are found in a 76-bp fragment, and these consist of two independent 25- and 32-bp auxin-inducible elements. Both of these 25- and 32-bp auxin-inducible elements contain the sequence TGTCTC just upstream of an AATAAG. An addnl. auxin-inducible element was found upstream of the 76-bp auxin-inducible fragment; this can function independently of the 76-bp fragment. Two TGA-box or Hex-like elements (TGACGTAA and TGACGTGGC) in the promoter, which are strong binding sites for proteins in plant nuclear exts., may also elevate the level of auxin inducibility of the GH3 promoter. The multiple auxin-inducible elements within the GH3 promoter contribute incrementally to the overall level of auxin induction obsd. with this promoter.

L5 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 9

AN 1991:507567 CAPLUS

DN 115:107567

TI Tetramer of a 21-base pair synthetic element confers seed expression and transcriptional enhancement in response to water stress and abscisic acid

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SO Journal of Biological Chemistry (1991), 266(26), 17131-5

CODEN: JBCHA3; ISSN: 0021-9258

DT Journal

LA English

AB A conserved 21-base pair element, designated as hex1, located between -180 and -160 of the wheat histone H3 promoter, is known to interact with 2 tobacco nuclear factors, activating sequence factor 1 and hex-1-specific binding factor. It was shown previously that a mutant sequence (hex-3), which differs from hex-1 by three base pairs, can no longer bind these 2 factors significantly. In the present work, the functional characteristics of these 2 sequences in transgenic tobacco were examd. Surprisingly, a tetramer of hex-3, but not of hex-1, confers high level expression in mature seeds. Expression of this synthetic promoter rapidly diminishes upon germination but can be reactivated in young seedlings and

mature leaves by desiccation, NaCl, or the phytohormone abscisic acid (ABA). Treatment with auxin or cytokinin has no apparent effect on the expression. Since the endogenous ABA level of plant cells is known to increase upon water stress, these data suggest that hex-3, the mutated hex-1 sequence, is an abscisic acid-responsive element (abre). It is proposed that a tobacco nuclear factor, distinct from activating sequence factor 1 and hex-1-specific binding factor, interacts with this sequence and is involved in mediating the effects of ABA and water stress on gene expression.

L5 ANSWER 23 OF 23 MEDLINE DUPLICATE 10
 AN 90277686 MEDLINE
 DN 90277686 PubMed ID: 2351681
 TI Plant nuclear factor ASF-1 binds to an essential region of the nopaline synthase promoter.
 AU Lam E; Katagiri F; Chua N H
 CS Laboratory of Plant Molecular Biology, Rockefeller University, New York, New York 10021.
 SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1990 Jun 15) 265 (17) 9909-13.
 Journal code: 2985121R. ISSN: 0021-9258.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199007
 ED Entered STN: 19900824
 Last Updated on STN: 19900824
 Entered Medline: 19900716
 AB We have characterized a tobacco nuclear factor that binds to the -118 region of the nopaline synthase (nos) promoter from the Ti plasmid of Agrobacterium tumefaciens. The binding site for this factor, identified by DNase I footprinting, encompasses the region from -138 to -103 of the nos promoter. This region, which contains a potential Z-DNA-forming sequence, was previously shown to be essential for nos promoter activity in transgenic tobacco. A synthetic 21-base pair sequence from the protected region (from -131 to -111), designated as nos-1, was sufficient for factor recognition in vitro. In transgenic tobacco, a tetramer of nos-1 can confer leaf and root expression when fused upstream of a truncated 35 S promoter from the cauliflower mosaic virus. Mutations at the two TGACG-like motifs in nos-1 abolish factor binding while preserving the potential for Z-DNA formation. A tetramer of the nos-1 mutant sequence has no significant activity above background when tested in transgenic tobacco. Competition experiments with activation sequence factor (ASF)-1 binding sites from the 35 S promoter of cauliflower mosaic virus (as-1) and the wheat histone H3 promoter (hex-1) demonstrate that ASF-1 is the factor that binds to nos-1.

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